

Homburg wastewater treatment plant

Construction of the sewage sludge drying plant



Project aims

- Realisation of a drying plant for digested sludge as the preliminary stage of a Pyreg® sewage sludge mineralisation plant* having the following features
 - Very good economy
 - Negligible emission levels
 - Optimal operating safety
 - Easy to operate and maintain
- Optimally coordinated operation of dewatering, drying and PYREG® without intermediate storage of sludge
- Integration of drying and PYREG® plant into the sewage treatment plant and the existing heat supply concept
- Reliable and safe production of dry material that can be well-utilised in the PYREG® plant

Solutions

- Adaption of existing centrifuges to the dryer's 24-hour mode of operation
- EloDry® NT32 low-temperature belt dryer with extremely low demand for thermal energy
- Tailor-made heat recovery and utilisation
- Cleaning of the waste air according to German regulations

Technical data of the wastewater treatment plant

Size:	75,000 PE
Amount of sewage sludge:	currently approx. 5,000 t/a dewatered digested sludge
Dryer suitable for max. approx.	8,500 t/a dewatered digested sludge
Dryer max. evaporation capacity:	880 kg H ₂ O _{vapour} /h

Start
November 2015

Completion
March 2016

Total project value
Approx. 1.5 million Euro

^{*)} ELIQUO STULZ is the partner of the PYREG GmbH